

CLAIMS

We claim:

- 5 1. A method for producing a factor VIIa/TF/Xa binding protein, comprising:
- 435/320.1 a) incubating yeast cells transformed with a replicable cloning vehicle, said  
435/69.2 replicable cloning vehicle comprising a first nucleotide sequence encoding the  
factor VIIa/TF/Xa binding protein, under conditions favorable for production of  
the factor VIIa/TF/Xa binding protein, wherein the factor VIIa/TF/Xa binding  
10 protein is retained within the yeast cell;
- b) preparing an insoluble fraction of the transformed yeast cells containing the factor  
VIIa/TF/Xa binding protein;
- c) isolating the factor VIIa/TF/Xa binding protein of the insoluble fraction.
- 15 2. The method of claim 1 wherein the DNA encoding the factor VIIa/TF/Xa binding protein  
is immediately preceded in frame by a second nucleotide sequence, said first and said second  
435/69.7 nucleotide sequences together encoding a fusion peptide, said fusion peptide capable of being  
cleaved within the yeast cells to produce authentic factor VIIa/TF/Xa binding protein.
- 20 3. The method of claim 2 wherein said second nucleotide sequence encodes ubiquitin.
4. The method of claim 3 wherein the replicable cloning vehicle comprises SEQ ID 1.
- 435/264.21 5. The method of claim 1 wherein the yeast cells are of the genus *Saccharomyces*.
- 25 6. The method of claim 5 wherein the yeast cells are of the species *Saccharomyces*  
*cerevisiae* and have a genotype selected from the group consisting of VH6, AB122, and JSC310.

7. The factor VIIa/TF/Xa binding protein prepared by the method according to claim 1.
8. The method of claim 1 wherein the factor VIIa/TF/Xa binding protein is TFPI.
9. The method of claim 1 wherein the factor VIIa/TF/Xa binding protein is TFPI-2.
10. The method of claim 1 wherein the factor VIIa/TF/Xa binding protein is a mutein of TFPI having arginine in the P1 reactive site of Kunitz-type domain 1.
11. The factor VIIa/TF/Xa binding protein prepared by the method according to claim 10.

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